Application No.: Not Yet Assigned Docket No.: G0365.0374

## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A composition comprising a matrix which, on pyrolysis, forms spinel, and 20 to 95 weight % of an inorganic particulate filler having a hollow or a lamellar structure, wherein the matrix comprises a liquid pre-ceramic binder and at least one other component selected from a metal powder, a metal oxide powder and mixtures thereof.

- 2. (Original) A composition according to claim 1, wherein the liquid pre-ceramic binder comprises a material selected from aluminium-containing pre-ceramic materials and magnesium-containing pre-ceramic materials.
- 3. (Original) A composition according to claim 2, wherein the liquid pre-ceramic binder comprises a material selected from aluminium chlorohydrate, aluminium nitrate nonahydrate, magnesium chloride hexahydrate, magnesium nitrate nonahydrate and mixtures thereof.
- 4. (Original) A composition according to claim 3, wherein the matrix comprises an aluminium chlorohydrate binder and talc.
- 5. (Currently Amended) A composition according to claim 3, wherein the matrix comprises an aluminium nitrate nonahydrate binder and a metal oxide selected from the group consisting of magnesia, talc and mixtures thereof.
- 6. (Currently Amended) A composition according to [[claim 4 or ]]claim 5, wherein the matrix additionally comprises alumina.
- 7. (Currently Amended) A composition according to claim 3, wherein the matrix comprises a pre-ceramic binder selected from the group consisting of magnesium chloride hexahydrate and magnesium nitrate nonahydrate; a metal oxide selected from the group consisting of magnesia, talc and mixtures thereof; and alumina.
- 8. (Currently Amended) A composition according to [[any preceding ]]claim 1, wherein the filler comprises hollow particles of an inorganic oxide.

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9. (Currently Amended) A composition according to any of claims claim 1-to 7, wherein the filler comprises a micaceous material.

- 10. (Original) A composition according to claim 9, wherein the filler comprises vermiculite.
- 11. (Currently Amended) A composition according to [[any preceding ]]claim 1, which comprises 10 to 95 weight %, preferably 20 to 70 wt. %, hollow or lamellar filler.
- 12. (Currently Amended) A composition according to [[any preceding ]]claim 1, which comprises an inorganic filler in addition to the filler having a hollow or a lamellar structure.
- 13. (Currently Amended) A product obtainable by pyrolysing a composition as defined in [[any preceding ]]claim\_1.
- 14. (Original) An article comprising a substrate and, attached to or coated on a surface of the substrate, a product as defined in claim 13.
- 15. (Currently Amended) An article according to claim 14, wherein the substrate is selected from a ceramic materials, preferably oxide-oxide ceramic materials, and high temperature metallic materials.
- 16. (Currently Amended) An article according to claim 14-or claim 15, wherein the substrate forms part of an article selected from the group consisting of an aircraft, power-generating equipment, a furnace lining, a heat-exchanger, and a reactor.
- 17. (Currently Amended) A method of manufacturing a heat resistant product, the method comprising mixing together a matrix which, on pyrolysis, forms spinel and comprises a liquid preceramic binder and at least one other component selected from a metal powder, a metal oxide powder and mixtures thereof, as defined in any of claims 1 to 7 and an inorganic particulate filler having a hollow or a lamellar structure as defined in any of claims 1 and 8 to 10; and pyrolysing the resultant mixture.

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18. (Original) A method according to claim 17, wherein, prior to pyrolysis, the mixture is coated on to a substrate.

- 19. (Currently Amended) <u>In a structure having a thermal barrier coating, utilizing Use of a composition as defined in any of claims claim 1-to-12</u>, as [[a]] <u>the</u> thermal barrier coating.
- 20. (New) A composition according to claim 1, which comprises 20 to 70 weight % hollow or lamellar filler.